

JVC

SERVICE MANUAL

MODEL
SEA-40

S.E.A. GRAPHIC EQUALIZER



No. 2600
JAN. 1982

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1. Specifications

Circuitry

Semiconductor-L circuit : Transistor-inductor circuit

Input section

LINE : Input impedance 47 k-ohms
TAPE MONITOR : Input impedance 47 k-ohms

Output section

LINE OUT : Output impedance 100-ohms
TAPE REC : Output impedance 100-ohms
TAPE REC (DIN) : Output impedance 80 k-ohms
Rated output : 2 V RMS (all S.E.A. controls positioned at "O")

Max. output : 6 V RMS (all S.E.A. control positioned at "O")

Total harmonic distortion : 0.005% (20 Hz-20 kHz, rated output)

Intermodulation distortion : 0.005% (rated output)

Gain : 0 dB (S.E.A. flat)

Frequency response : 10 Hz — 100 kHz (+0, —2 dB S.E.A. flat)

S/N ratio : 115 dB (at rated output, IHF A-network short circuited)

Control section

SEA center frequencies : 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz

SEA control range : ±12 dB

General

Power source : See attached table.

Dimensions : (H)117 x (W)435 x (D) 312 mm
(4-5/8" x 17-1/8" x 12-5/16")

Weight (NET) : 4.1 kg (9.0 lbs)

POWER SPECIFICATIONS

	U.S.A. & Canada	Europe, U.K., & Australia	Military Market & Other Areas
Power Supply	AC120V ~, 60Hz	AC110V/120V/220V/240V ~ selectable, 50Hz	AC110V/120V/220V/240V ~ selectable, 50/60Hz
Power Consumption	10watts	10watts	10watts
Power Outlet	Fitted	Not Fitted	Fitted
FUSE (Primary) (FO01)	QMF61U1-R50 (0.5A)	QMF51A2-R315L (T315mA)	QMF51A2-R315L (T315mA)

Design and specifications subject to change without notice.

2. Service Precaution

TAPE MONITOR	SEA REC	Output at the TAPE REC terminals	Output at the LINE OUT terminals
OFF	OFF	LINE IN signal (without S.E.A. effect)	LINE IN signal (either with or without S.E.A. effect)
	ON	LINE IN signal (either with or without S.E.A. effect)	LINE IN signal (either with or without S.E.A. effect)
ON	OFF	LINE IN signal (without S.E.A. effect)	TAPE signal (either with or without S.E.A. effect)
	ON	LINE IN signal (either with or without S.E.A. effect)	Reproduced tape signal (without S.E.A. effect)

3. Removal Procedures of IC201, IC202

1. Remove screws which fixed each p.c. board assemblys on the center bracket.
2. Remove the center bracket from the chassis base.
3. Remove IC201, IC202.

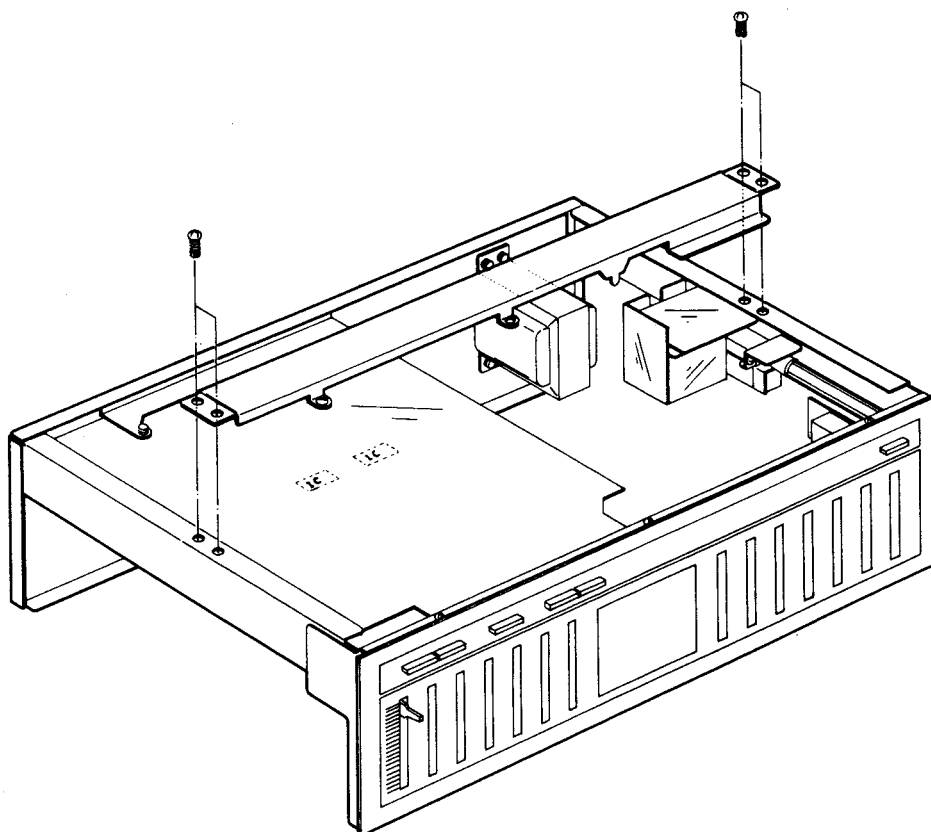


Fig. 1

4. Main Parts Locations

4-(1) Top View

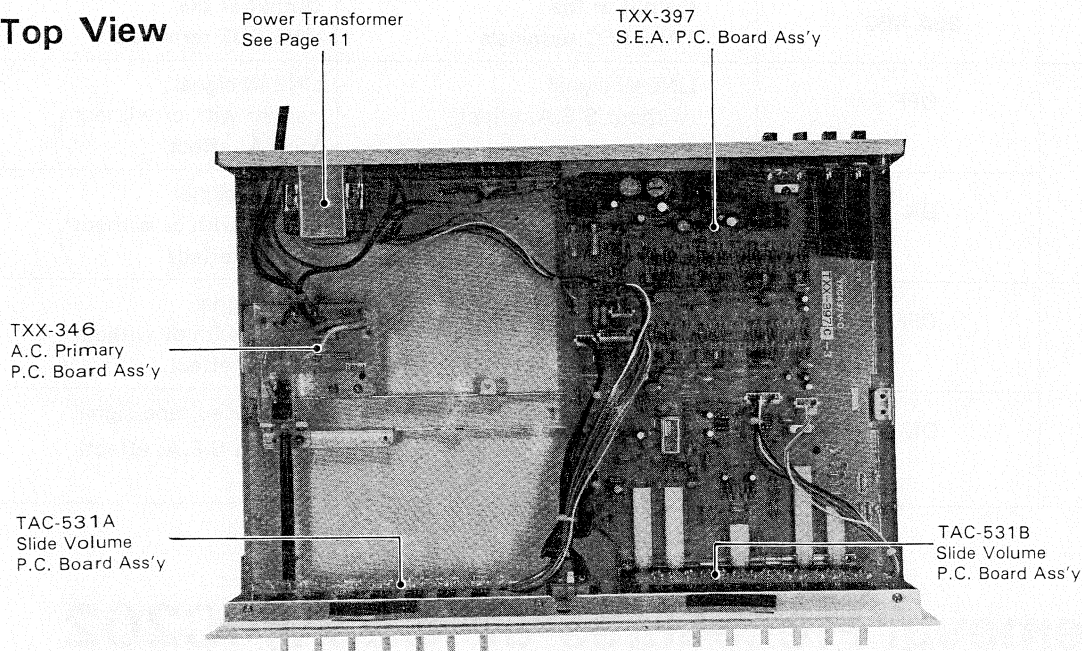


Fig. 2

4-(2) Front View

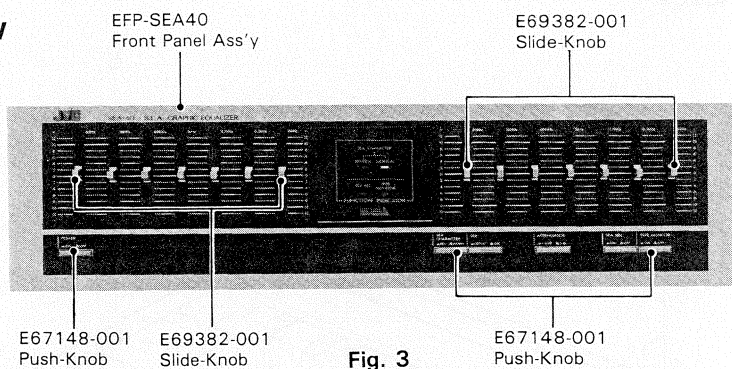


Fig. 3

4-(3) Rear View

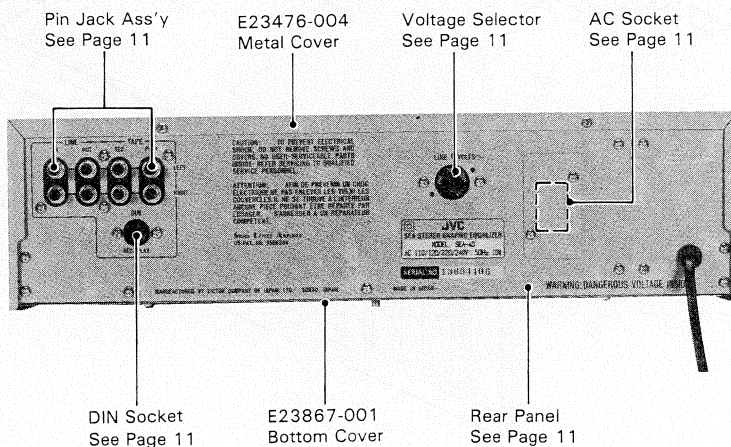


Fig. 4

5. Exploded View and Part Numbers

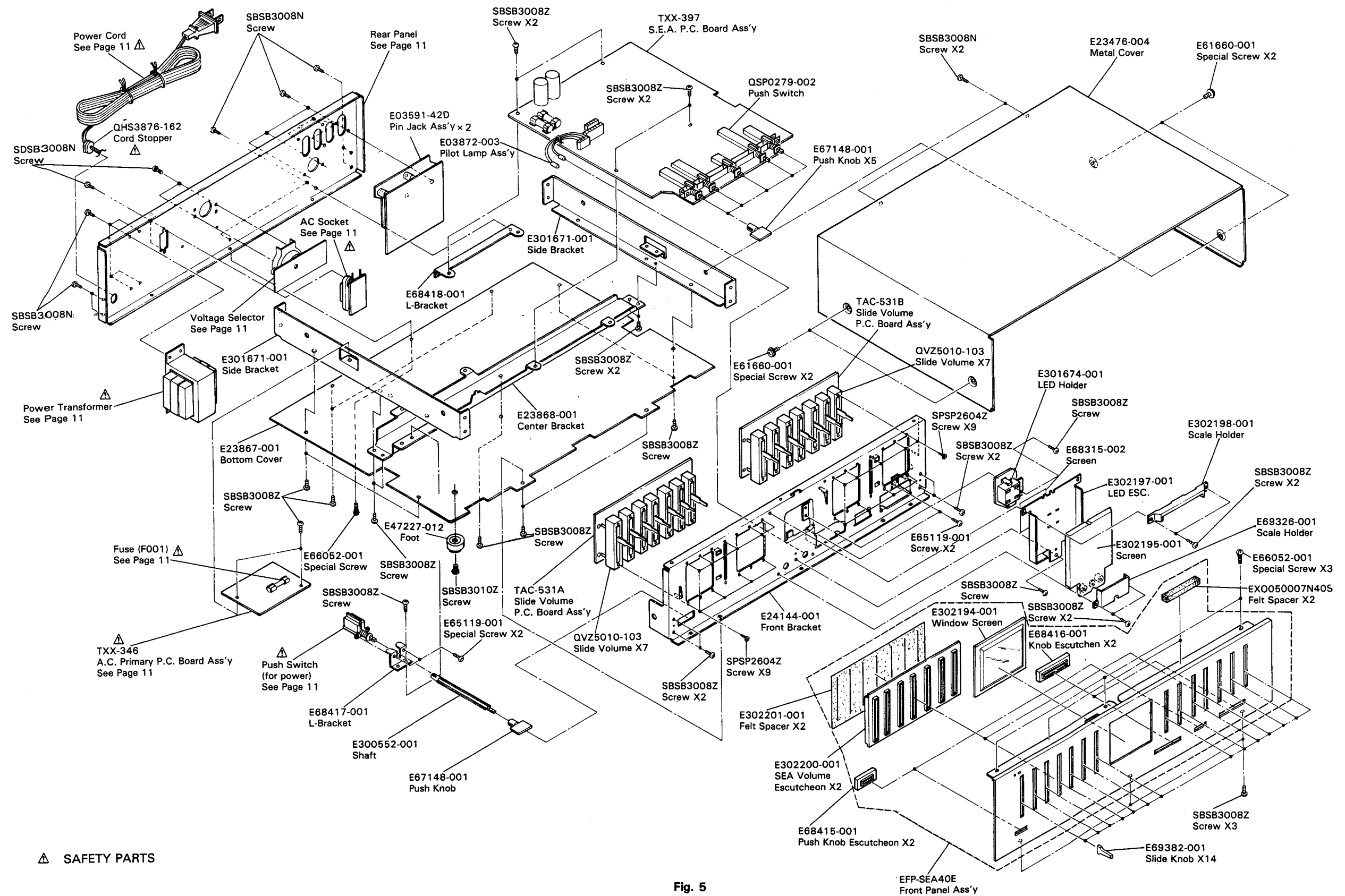


Fig. 5

6. Connection Diagram

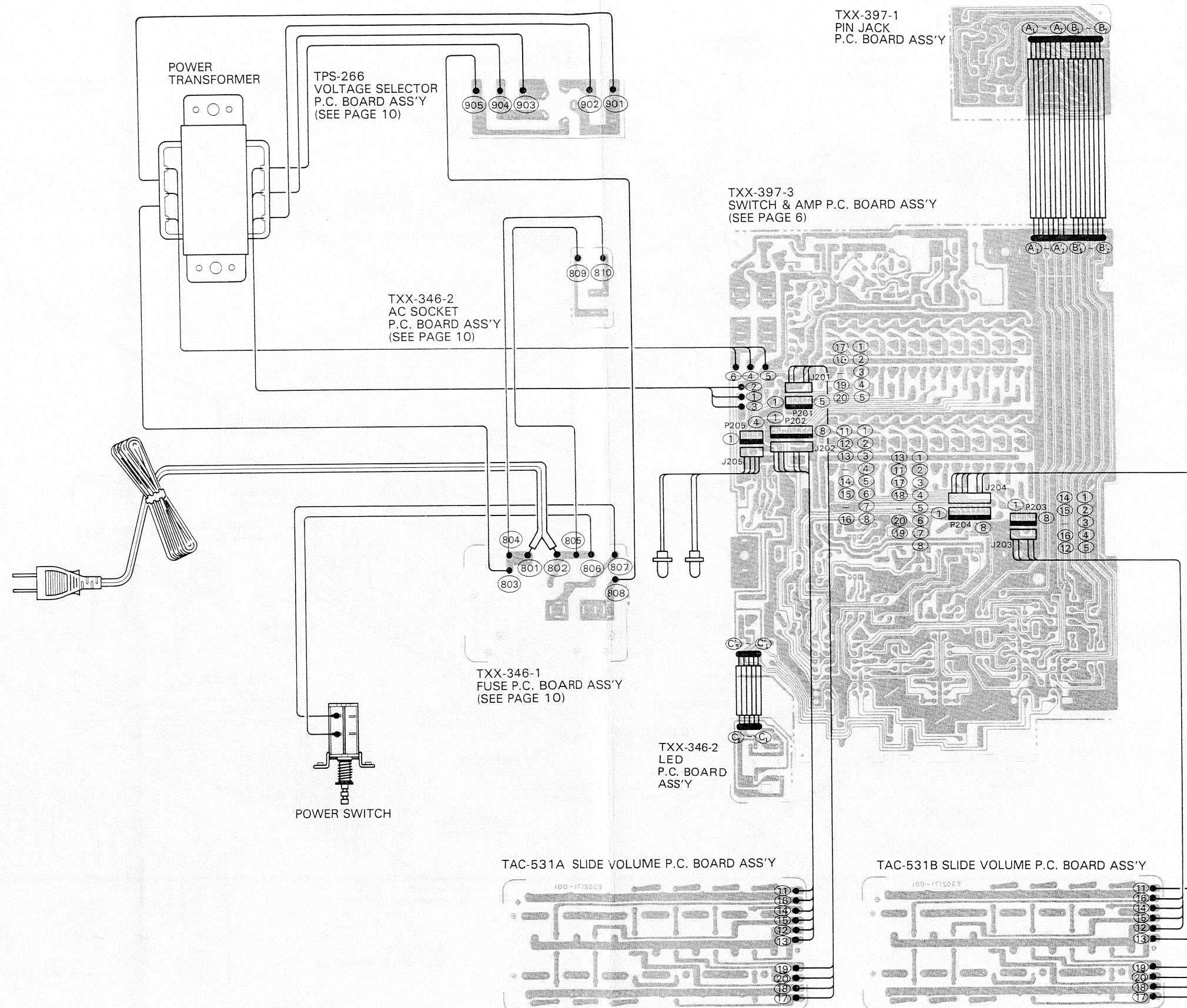


Fig. 6

7. Printed Circuit Board Ass'y and Parts List

7-(1) TXX-397 □ S.E.A. Amp. P.C. Board Ass'y

Note: TXX-397 □-1 varies according to the areas employed. See note (1) when placing an order.

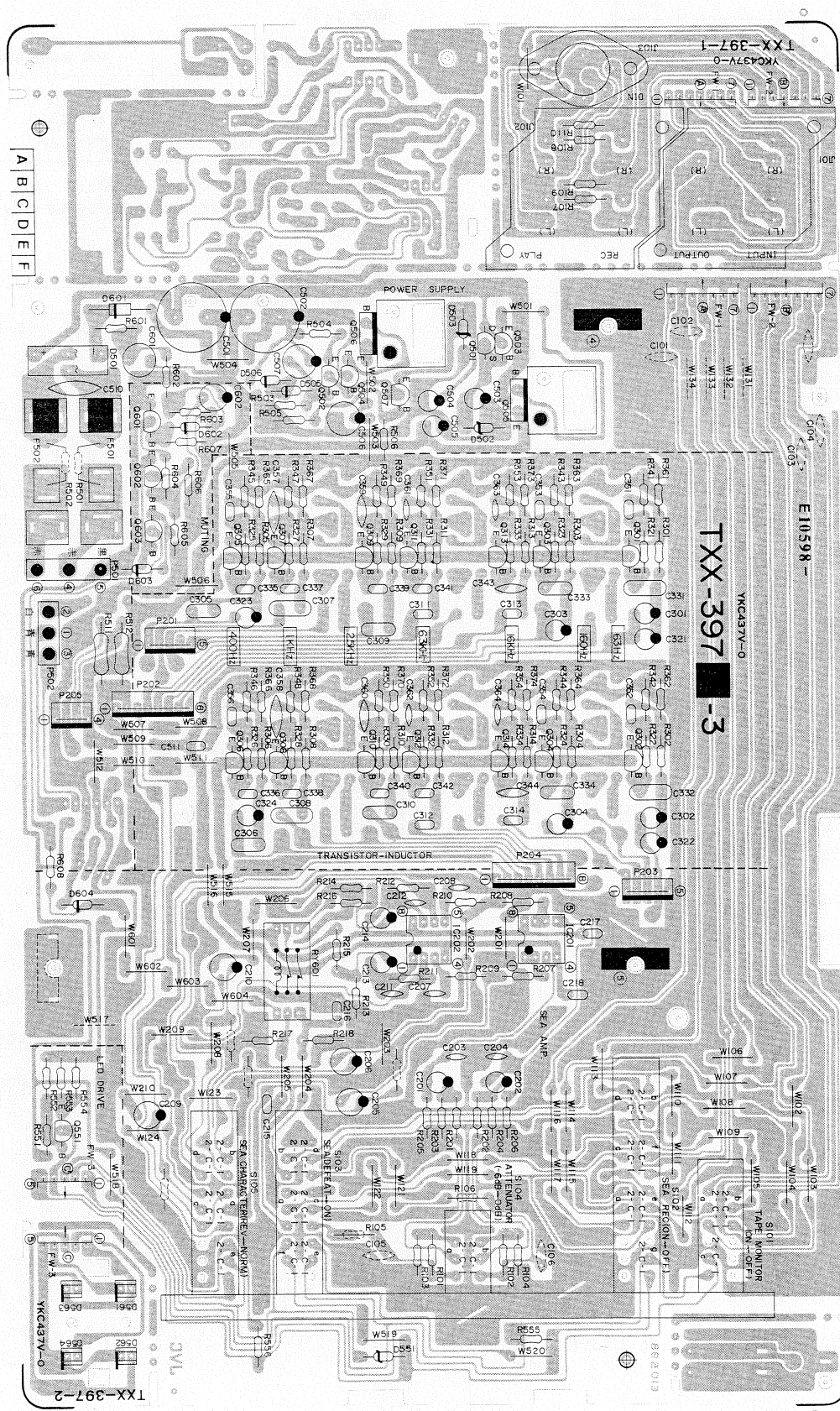


Fig. 7

SEA-40
No. 2600

Each Individual P.C. Board Location

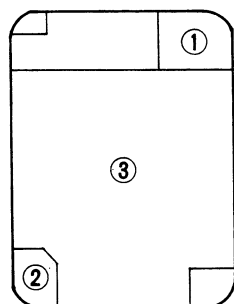


Fig. 8

- ① TXX-397-1 Pin Jack P.C. Board Ass'y
- ② TXX-397-2 LED P.C. Board Ass'y
- ③ TXX-397-3 Switch & Amp. P.C. Board Ass'y

Note : (1)

Designated Areas	P.C. Board Ass'y
U.S.A & Canada	TXX-397B
Germany	TXX-397D
All Other Areas	TXX-397C

Note : (2) The symbols (赤, 黒, 白, ...) on P.C. board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	
				Maker
Q301	2SC2240(BL)		Silicon	Toshiba
Q302	2SC2240(BL)		"	"
Q303	2SC2240(BL)		"	"
Q304	2SC2240(BL)		"	"
Q305	2SC2240(BL)		"	"
Q306	2SC2240(BL)		"	"
Q307	2SC2240(BL)		"	"
Q308	2SC2240(BL)		"	"
Q309	2SC2240(BL)		"	"
Q310	2SC2240(BL)		"	"
Q311	2SC2240(BL)		"	"
Q312	2SC2240(BL)		"	"
Q313	2SC2240(BL)		"	"
Q314	2SC2240(BL)		"	"
Q501	2SK246(Y)		F.E.T.	"
Q502	2SC536AUD(E,F)		Silicon	Sanyo
Q503	2SC1775AV(E)		"	Hitachi
Q504	2SA872AV(D)		"	"
Q505	2SD313V(D,E)		"	Sanyo
Q506	2SB507V(D,E)		"	"
Q507	2SA1015(O,Y)		"	Toshiba
Q551	2SC536AUD(E,F)		"	Sanyo
Q601	2SC536AUD(E,F)		"	"
Q602	2SC536AUD(E,F)		"	"
Q603	2SC536AUD(E,F)		"	"

Integrated Circuits

Item No.	Part Number	Rating	Description	
				Maker
IC201	NJM4560D-X		I.C.	JRC
IC202	NJM4560D-X		"	"

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D501	S1RBA20F1	△	Silicon	Shindengen
D502	RD15EB3		Zener	NEC
D503	RD8.2EB3		"	"
D505	DS442		Silicon	Sanyo
D506	DS442		"	"
D561	TLR208		L.E.D.	Toshiba
D562	TLR208		"	"
D563	TLG208		"	Toshiba
D564	TLG208		"	"
D601	10E2FD-1	△	Silicon	Nippon Inter
D602	DS442		"	Sanyo
D603	DS442		"	"
D604	DS442		"	"

Capacitors

Item No.	Part Number	Rating		Description
C201	QET51HR-105	1μF	50V	E. Capacitor
C202	QET51HR-105	"	"	"
C203	QCS21HJ-101	100pF	"	C. Capacitor
C204	QCS21HJ-101	"	"	"
C205	QET51CR-476	47μF	16V	E. Capacitor
C206	QET51CR-476	"	"	"
C207	QCS21HJ-121	120pF	50V	C. Capacitor
C208	QCS21HJ-121	"	"	"
C209	QET51CR-476	47μF	16V	E. Capacitor
C210	QET51CR-476	"	"	"
C211	QCS21HJ-271	270pF	50V	C. Capacitor
C212	QCS21HJ-271	"	"	"
C213	QET51ER-106	10μF	25V	E. Capacitor
C214	QET51ER-106	"	"	"
C215	QFM31HK-472Z	0.0047μF	50V	M. Capacitor
C216	QFM31HK-472Z	"	"	"
C217	QFM31HK-822Z	0.0082μF	"	"
C218	QFM31HK-822Z	"	"	"
C301	QET51HR-225	2.2μF	"	E. Capacitor
C302	QET51HR-225	"	"	"
C303	QET51HR-105	1μF	"	"
C304	QET51HR-105	"	"	"
C305	QFM81HK-104	0.1μF	"	M. Capacitor
C306	QFM81HK-104	"	"	"
C307	QFM81HK-184	0.18μF	"	"
C308	QFM81HK-184	"	"	"
C309	QFM81HK-683	0.068μF	"	"
C310	QFM81HK-683	"	"	"
C311	QFM81HK-273	0.027μF	"	"
C312	QFM81HK-273	"	"	"
C313	QFM81HK-103	0.01μF	50V	"
C314	QFM81HK-103	"	"	"
C321	QET51HR-474	0.47μF	"	E. Capacitor
C322	QET51HR-474	"	"	"
C323	QEB51HM-334	0.33μF	"	LLC E. Capacitor
C324	QEB51HM-334	"	"	"
C331	QFM81HK-104	0.1μF	"	M. Capacitor
C332	QFM81HK-104	"	"	"
C333	QFM81HK-393	0.039μF	"	"
C334	QFM81HK-393	"	"	"
C335	QFM81HK-183	0.018μF	"	"
C336	QFM81HK-183	"	"	"
C337	QFM81HK-562	0.0056	"	"
C338	QFM81HK-562	"	"	"
C339	QFM81HK-272	0.0027μF	"	"
C340	QFM81HK-272	"	"	"
C341	QFM81HK-102	0.001μF	"	"
C342	QFM81HK-102	"	"	"
C343	QCS21HJ-331	330pF	"	C. Capacitor
C344	QCS21HJ-331	"	"	"

Capacitors

Item No.	Part Number	Rating	Description
C351	QFM81HK-822	0.0082μF 50V	M. Capacitor
C352	QFM81HK-822	" "	"
C353	QFM81HK-392	0.0039μF "	"
C354	QFM81HK-392	" "	"
C355	QFM81HK-152	0.0015μF "	"
C356	QFM81HK-152	" "	"
C357	QCS21HJ-561	560pF "	C. Capacitor
C358	QCS21HJ-561	" "	"
C359	QCS21HJ-271	270pF "	"
C360	QCS21HJ-271	" "	"
C361	QCS21HJ-101	100pF "	"
C362	QCS21HJ-101	" "	"
C363	QCS21HJ-390	39pF "	"
C364	QCS21HJ-390	" "	"
C501	QET51VR-108H	1000μF 35V	E. Capacitor
C502	QET51VR-108H	" "	"
C503	QET51CR-107	100μF 16V	"
C504	QET51AR-476	47μF 10V	"
C505	QET51CR-226	22μF 16V	"
C506	QET51CR-477	470μF "	"
C507	QET50JR-227	220μF 6.3V	"
C510	QCE22HP-103	0.01μF 500V	C. Capacitor
C511	QFM31HK-822Z	0.0082μF 50V	M. Capacitor
C601	QEZO046-225	2.2μF "	N.P.E. Capacitor
C602	QET51CR-476	47μF 16V	E. Capacitor

Resistors

Item No.	Part Number	Rating	Description
R101	QRD141J-623S	62kΩ 1/4W	Carbon
R102	QRD141J-623S	" "	"
R103	QRD141J-474S	470kΩ "	"
R104	QRD141J-474S	" "	"
R107	QRD141J-334S	330kΩ "	"
R108	QRD141J-334S	" "	"
R109	QRD141J-104S	100kΩ "	"
R110	QRD141J-104S	" "	"
R201	QRD141J-390S	39Ω "	"
R202	QRD141J-390S	" "	"
R203	QRD141J-224S	220kΩ "	"
R204	QRD141J-224S	" "	"
R205	QRD141J-104S	100kΩ "	"
R206	QRD141J-104S	" "	"
R207	QRD141J-332S	3.3kΩ "	"
R208	QRD141J-332S	" "	"
R209	QRD141J-121S	120Ω "	"
R210	QRD141J-121S	" "	"
R211	QRD141J-332S	3.3kΩ "	"
R212	QRD141J-332S	" "	"
R213	QRD141J-223S	22kΩ "	"
R214	QRD141J-223S	" "	"
R215	QRD141J-101S	100Ω "	"
R216	QRD141J-101S	" "	"
R217	QRD141J-223S	22kΩ "	"
R218	QRD141J-223S	" "	"
R301	QRD141J-511S	510Ω "	"
R302	QRD141J-511S	" "	"
R303	QRD141J-511S	" "	"
R304	QRD141J-511S	" "	"
R305	QRD141J-511S	" "	"
R306	QRD141J-511S	" "	"
R307	QRD141J-511S	" "	"
R308	QRD141J-511S	" "	"
R309	QRD141J-511S	" "	"
R310	QRD141J-511S	" "	"
R311	QRD141J-511S	" "	"

Resistors

Item No.	Part Number	Rating	Description
R312	QRD141J-511S	510Ω 1/4W	Carbon
R313	QRD141J-511S	" "	"
R314	QRD141J-511S	" "	"
R321	QRD141J-472S	4.7kΩ "	"
R322	QRD141J-472S	" "	"
R323	QRD141J-472S	" "	"
R324	QRD141J-472S	" "	"
R325	QRD141J-472S	" "	"
R326	QRD141J-472S	" "	"
R327	QRD141J-472S	" "	"
R328	QRD141J-472S	" "	"
R329	QRD141J-472S	" "	"
R330	QRD141J-472S	" "	"
R331	QRD141J-472S	" "	"
R332	QRD141J-472S	" "	"
R333	QRD141J-472S	" "	"
R334	QRD141J-472S	" "	"
R341	QRD141J-433S	43kΩ "	"
R342	QRD141J-433S	" "	"
R343	QRD141J-433S	" "	"
R344	QRD141J-433S	" "	"
R345	QRD141J-393S	39kΩ "	"
R346	QRD141J-393S	" "	"
R347	QRD141J-473S	47kΩ "	"
R348	QRD141J-473S	" "	"
R349	QRD141J-393S	39kΩ "	"
R350	QRD141J-393S	" "	"
R351	QRD141J-393S	" "	"
R352	QRD141J-393S	" "	"
R353	QRD141J-433S	43kΩ "	"
R354	QRD141J-433S	" "	"
R361	QRD141J-272S	2.7kΩ "	"
R362	QRD141J-272S	" "	"
R363	QRD141J-272S	" "	"
R364	QRD141J-272S	" "	"
R365	QRD141J-272S	" "	"
R366	QRD141J-272S	" "	"
R367	QRD141J-272S	" "	"
R368	QRD141J-272S	" "	"
R369	QRD141J-272S	" "	"
R370	QRD141J-272S	" "	"
R371	QRD141J-272S	" "	"
R372	QRD141J-272S	" "	"
R373	QRD141J-272S	" "	"
R374	QRD141J-272S	" "	"
R503	QRD141J-104S	100kΩ "	"
R504	QRD141J-681S	680Ω "	"
R505	QRD141J-133S	13kΩ "	"
R506	QRD141J-682S	6.8kΩ "	"
R511	QRG017J-680S	68Ω 1W	UNF.O.M.F.
R512	QRG017J-680S	" "	"
R551	QRD141J-822S	8.2kΩ 1/4W	Carbon
R552	QRD141J-562S	5.6kΩ "	"
R553	QRD141J-561S	560Ω "	"
R554	QRD141J-471S	470Ω "	"
R555	QRD141J-181S	180Ω "	"
R556	QRD141J-181S	" "	"
R601	QRD149J-220S	22Ω "	UNF.C.RES. Δ
R602	QRD141J-392S	3.9kΩ "	Carbon
R603	QRD141J-562S	5.6kΩ "	"
R604	QRD141J-150S	15Ω "	"
R605	QRD141J-394S	390kΩ "	"
R606	QRD141J-103S	10kΩ "	"
R607	QRD141J-104S	100kΩ "	"
R608	QRD141J-151S	150Ω "	"

Others

Item No.	Part Number	Rating	Description
P201	QMV5005-005		5P Plug Ass'y
P202	QMV5005-008		8P "
P203	QMV5005-005		5P "
P204	QMV5005-008		8P "
P205	QMV5005-004		4P "
J101	E03591-42D		4P Pin Jack
J102	E03591-42D		4P "
J103	E03623-003		DIN Socket
	QSP0279-002		Push Switch
	E67764-103		Terminal Ass'y
	E67764-003		"
	EWR35A-1 5NN		Flat Wire
	EWR37A-1 5NN		"

Item No.	Part Number	Rating	Description
RY601	ESK2D12-212		Relay
	E61537-001		Heat Sink
	E301674-001		LED Holder
	E65396-001		Earth Plate
	SBSB3008Z		Screw
	E10598-401		Circuit Board (for B)
	E10598-501		Circuit Board (for C, D)

7-(2) TAC-531A/B Slide Volume P.C. Board Ass'y

Note: TAC-531A (Left channel), TAC-531B (Right channel)

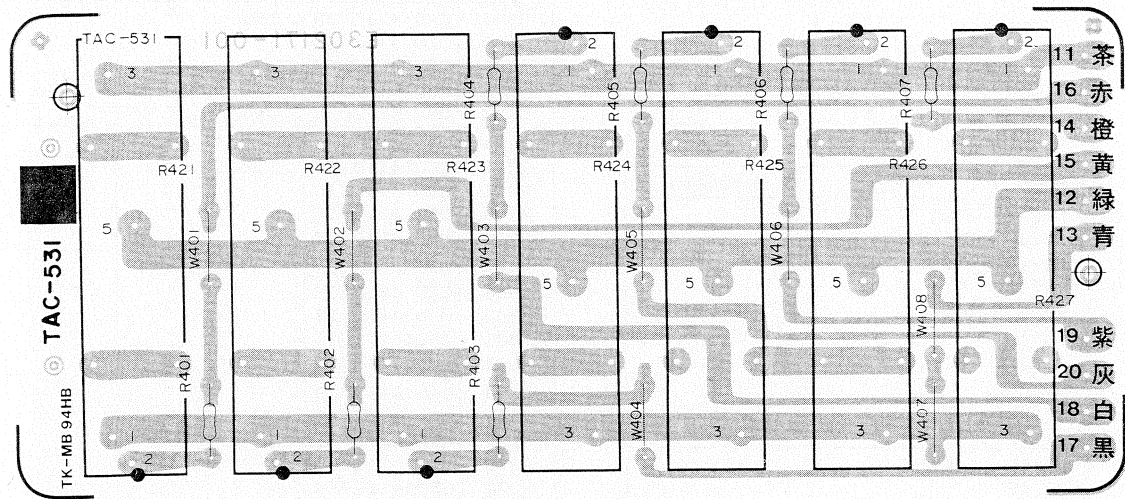


Fig. 9

Note: The symbol (赤, 黒, 白, ...) on P.C. board surface are factory process only.

Resistors

Item No.	Part Number	Rating	Description
R401	QRD148J-560S	56Ω	1/4W Carbon
R402	QRD148J-470S	47Ω	"
R403	QRD148J-470S	47Ω	"
R404	QRD148J-101S	100Ω	"
R405	QRD148J-101S	"	"
R416	QRD148J-820S	82Ω	"
R417	QRD148J-820S	"	"
R421	QVZ5010-103		Slide Volume
R422	QVZ5010-103		"
R423	QVZ5010-103		"
R424	QVZ5010-103		"
R425	QVZ5010-103		"
R426	QVZ5010-103		"
R427	QVZ5010-103		"

Others

Item No.	Part Number	Rating	Description
J201	EWS015-070		Socket Wire Ass'y
J202	EWS018-036		"
J203	EWS015-071		"
J204	EWS018-037		"
	E302171-001		Circuit Board

7-(3) TXX-346□ A.C. Primary P.C. Board Ass’y

Note: TXX-346□-1 varies according to the areas employed. See note (1) when placing an order.

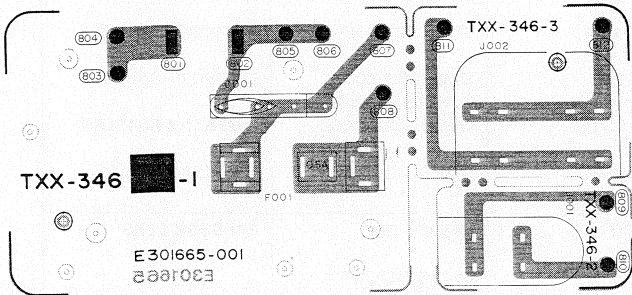


Fig. 10

Each Individual P.C. Board Location

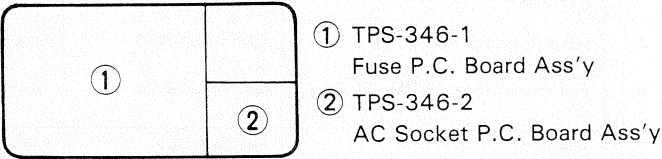


Fig. 11

Note (1)

Designated Areas	P.C. Board Ass’y
U.S.A. & Canada	TXX-346B
U.S. Military Market & Other Countries	TXX-346C
Europe, Australia & Germany	TXX-346D
U.K.	TXX-346E

Capacitors & Others

Item No.	Part Number	Rating	Description
C001	QCZ9014-103A	0.01μF Δ	Ceramic (for B)
C001	QFH53BM-103M	" Δ	Matalized Mylar (for C)
C001	QFZ9010-103	" Δ	Film (for D)
C001	QFZ9010-103BS	" Δ	" (for E)
J001	QMC0231-004	Δ	AC Socket (for B,C)
	E45524-002		Fuse Clip (for B)
	E48965-002		" (for C,D,E)
	E61380-001		Fuse Label (for B)
	E67132-TR315		Fuse Label (for C,D,E)
	E301665-001		Circuit Board
	E301665-001BS		" (for E)

7-(4) TPS-266□ Voltage Selector P.C. Board Ass’y

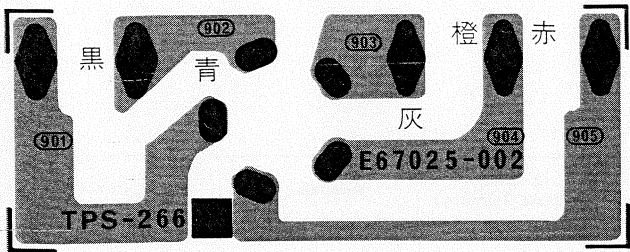


Fig. 12

Voltage Selector & Others

Item No.	Part Number	Rating	Description
	QSR0074-001	Δ	Voltage Selector
	E66342-001		Voltage Selector Holder
	E67025-003		Circuit Board

Note: In □ should be indicated an area code according to the table shown on page 11 section when preparing an order from.

Note: The symbol (赤 , 黒 , 白 , ...) on P.C. board surface are factory process only.

8. Parts List with Specified Number for Designated Areas

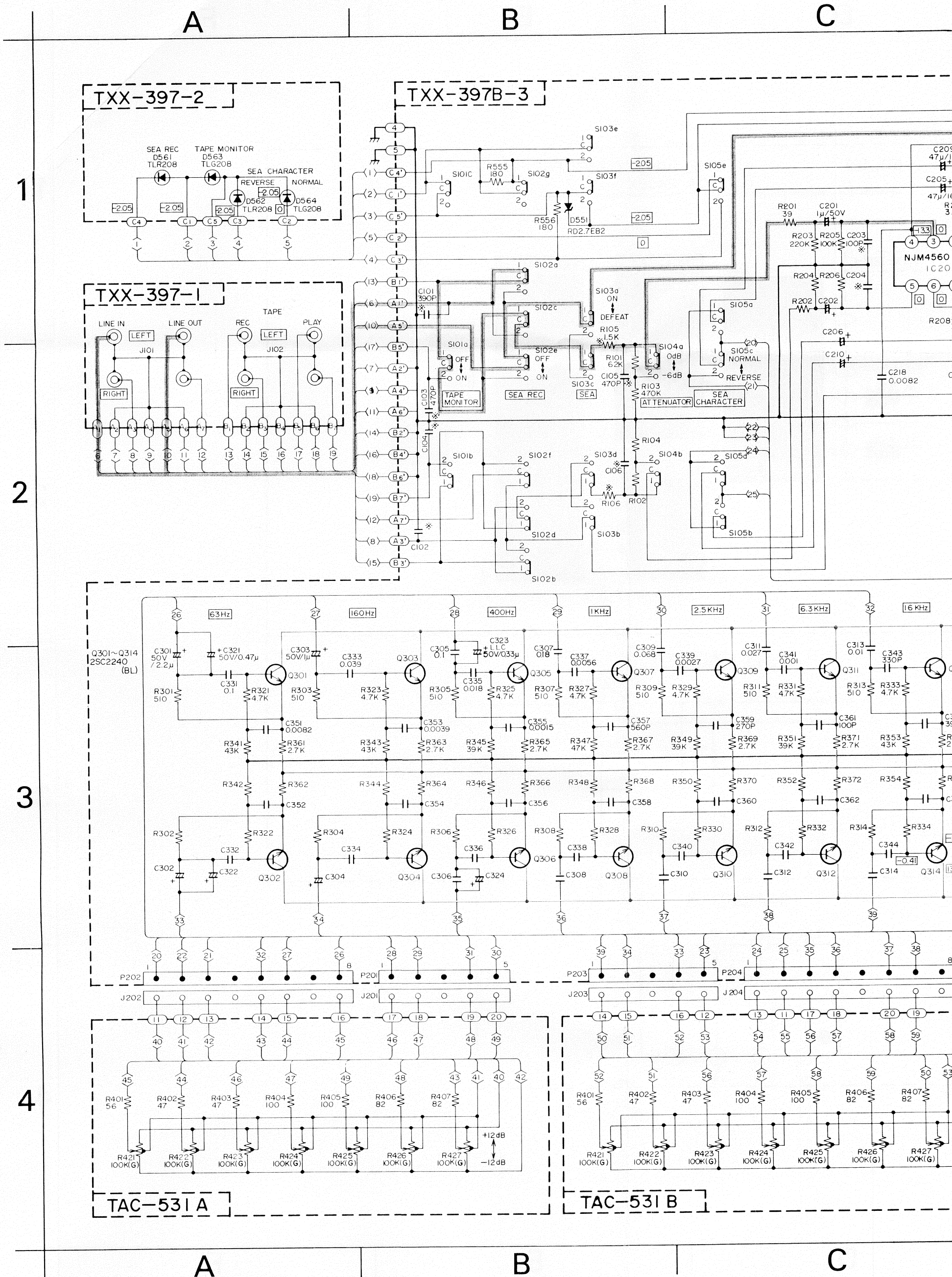
Item No.	Description	U.S.A. (& Canada)	U.S. Military Market (& Other Countries)	Europe (& Australia)	U.K.
1	Power Switch (S1)	QSP1110-308 (")	QSP1110-305 (")	QSP1110-305 (")	QSP1110-305BS
2	Power Transformer (T1)	ETP1020-01JA (")	ETP1020-01HA (")	ETP1020-01HA (")	ETP1020-01HABS
3	Power Cord	QMP1200-200 (")	QMP7600-250 (")	QMP3900-200 (QMP2560-244) (")	QMP9017-008BS
4	Fuse (Primary F001)	QMF61U1-R50 (")	QMF51A2-R315L (")	QMF51A2-R315L (")	QMF51A2-R315LBS
5	Fuse (Secondary F501, 502)	QMF61U1-R80 (")	QMF51A2-R50L (")	QMF51A2-R50L (")	QMF51A2-R50LBS
6	Fuse Crip	E45524-002 (")	E48965-002 (")	E48965-002 (")	E48965-002BS
7	Fuse Label (for F001)	E61380-001 (")	E67132-TR315 (")	E67132-TR315 (")	
8	AC Socket	QMC0231-004 (")	QMC0231-004 (")	—	—
9	Mask Plate (for AC Socket)	—	—	E67368-002 (")	E67368-002
10	Voltage Selector	—	QSR0074-001 (")	QSR0074-001 (")	QSR0074-001BS
11	Rear Panel	E23871-003 (")	E23871-004 (")	E23871-004 (")	E23871-004
12	Insulator (for Power Switch)	—	—	E68796-001 (")	E68796-001
13	Insulator (for TXX-346-1)	—	—	E301873-001 (")	E301873-001
14	Insulator (for Voltage Selector)	—	—	E301850-001 (")	E301850-001
15	DIN Socket	—	E03623-003	E03623-003	E03623-003
16	AC Primary P.C. Board Ass'y	TXX-346B (")	TXX-346C (")	TXX-346D (")	TXX-346EBS
17	Circuit Board (for TXX-346)	E301665-001 (")	E301665-001 (")	E301665-001 (")	E301665-001BS
18	Voltage Selector P.C. Board Ass'y	—	TPS-266C (")	TPS-266C (")	TPS-266DBS
19	Circuit Board (for TPS-266)	—	E67025-003 (")	E67025-003 (")	E67025-003BS
20	S.E.A.Amp. P.C. Board Ass'y	TXX-397B (")	TXX-397C (")	TXX-397C,TXX-397D (")(W.Germany)	TXX-397C
21	Circuit Board (for TXX-397)	E10598-401 (")	E10598-501 (")	E10598-501 (")	E10598-501

SAFETY PARTS

9. Accessories List

Description	Q'ty	U.S.A. (& Canada)	U.S. Military Market (& Other Countries)	Europe (& West Germany)	Australia	U.K.
Signal Cord	2	E03479-001B (")	E03479-001B (")	E03479-001B (")	E03479-001B	E03479-001B
Envelope	1	E41202-2 (")	E41202-2 (")	E41202-2 (")	E41202-2	E41202-2
Instruction Book	1	E30580-1001A (")	E30580-1001A (")	E30580-1001A (")	E30580-1001A	E30580-1001ABS
Warranty Card	1	BT20048 (BT20025E)	BT20048 —	— (BT20054-002A)	BT20029C	BT20013C
Special Replay Card	1	BT20046A (")	BT20046A —	—		
Caution Sheet	1	—	E60932-005 or 006 E60932-007 or 008 (")	E60932-007 (")	E60932-008	E60932-008
Safety Instruction	1	BT20044B (")	—	—	—	—
Envelope	1	E66416-003 (")	—	—	—	—

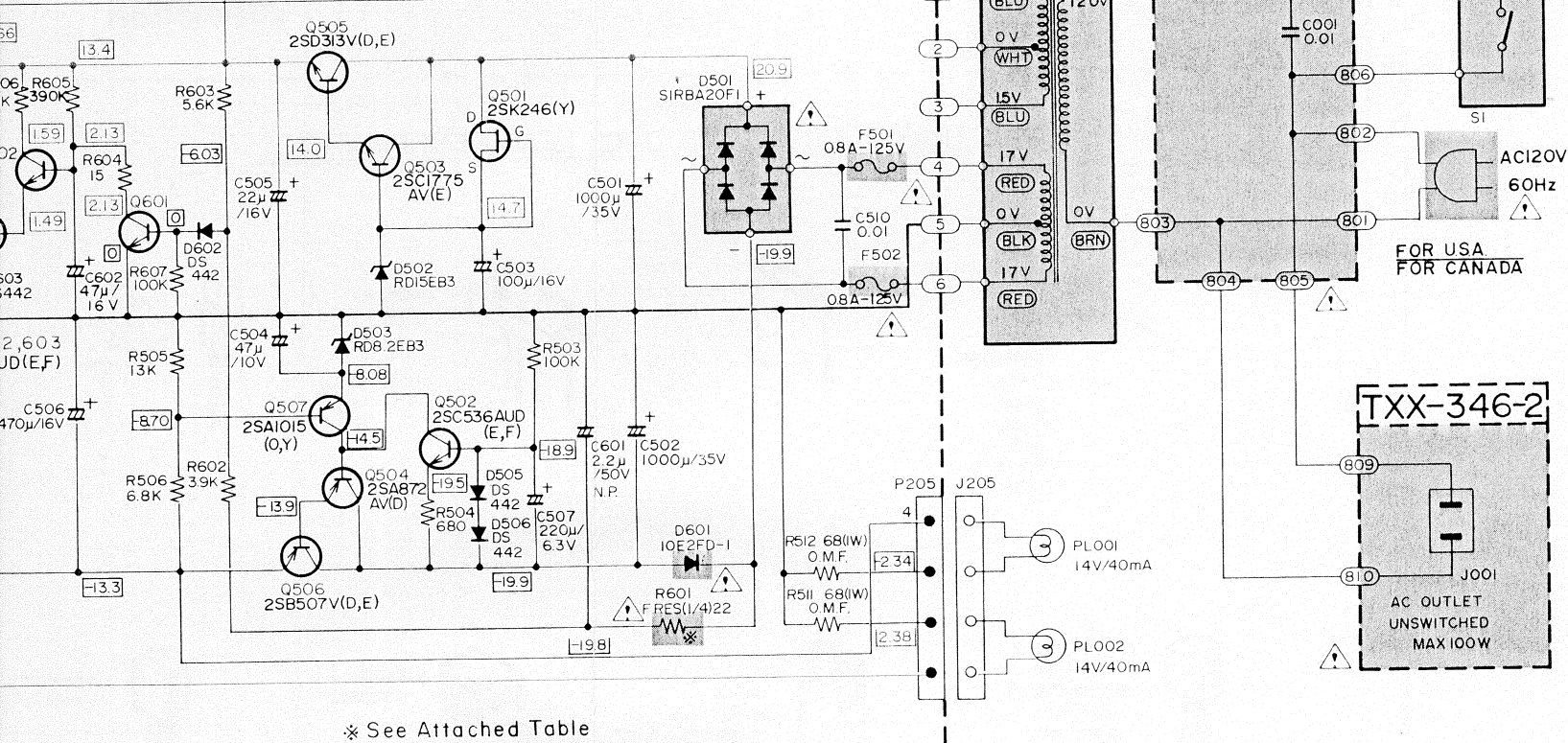
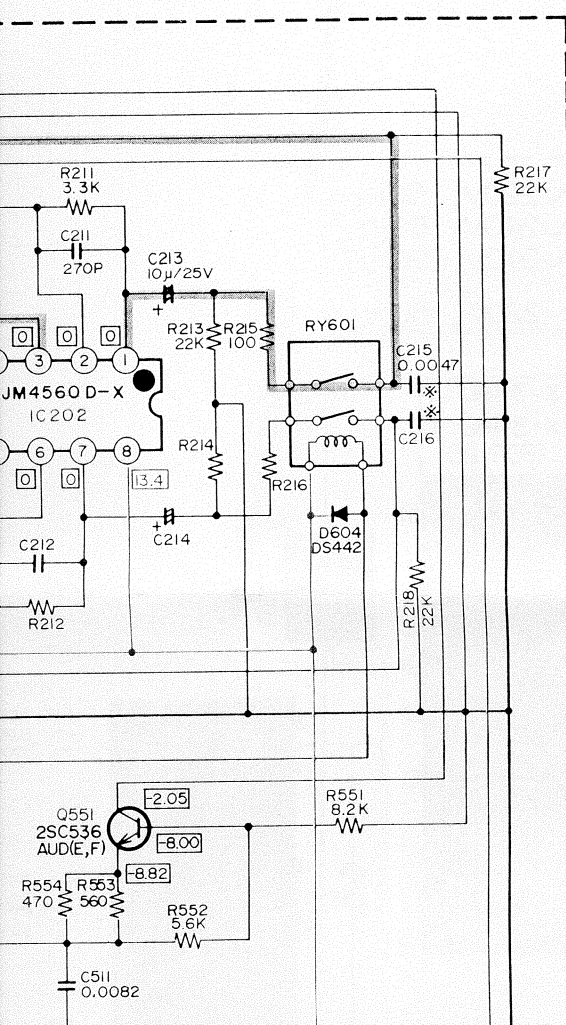
10. SEA-40 Schematic Diagram



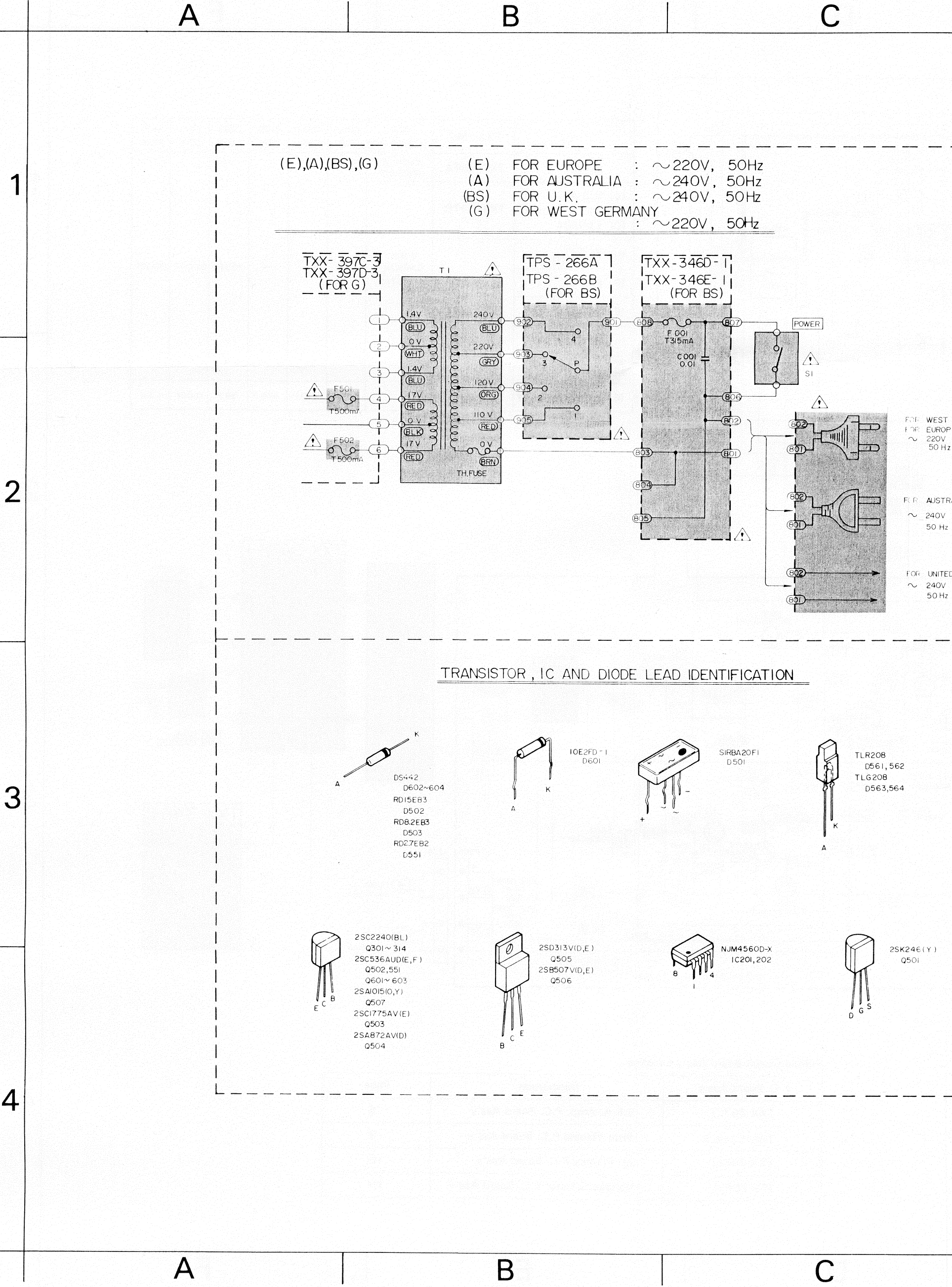
Notes:

- indicates positive B(+) power supply.
- indicates negative B(-) power supply.
- indicates signal path.
- Power supply block is difference in each market area.
See page 13.

- When replacing the parts in the darkened area () and those marked with Δ , be sure to use the designated parts to ensure safety.
- This is the standard circuit diagram.
The design and contents are subject to change without notices.



11. Power Supply Block for Designated Areas

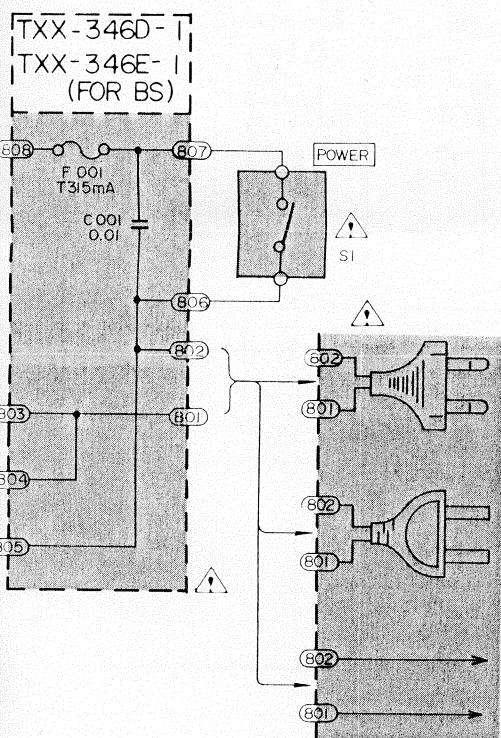


C

D

E

~ 220V, 50Hz
~ 240V, 50Hz
~ 240V, 50Hz
ANY
~ 220V, 50Hz



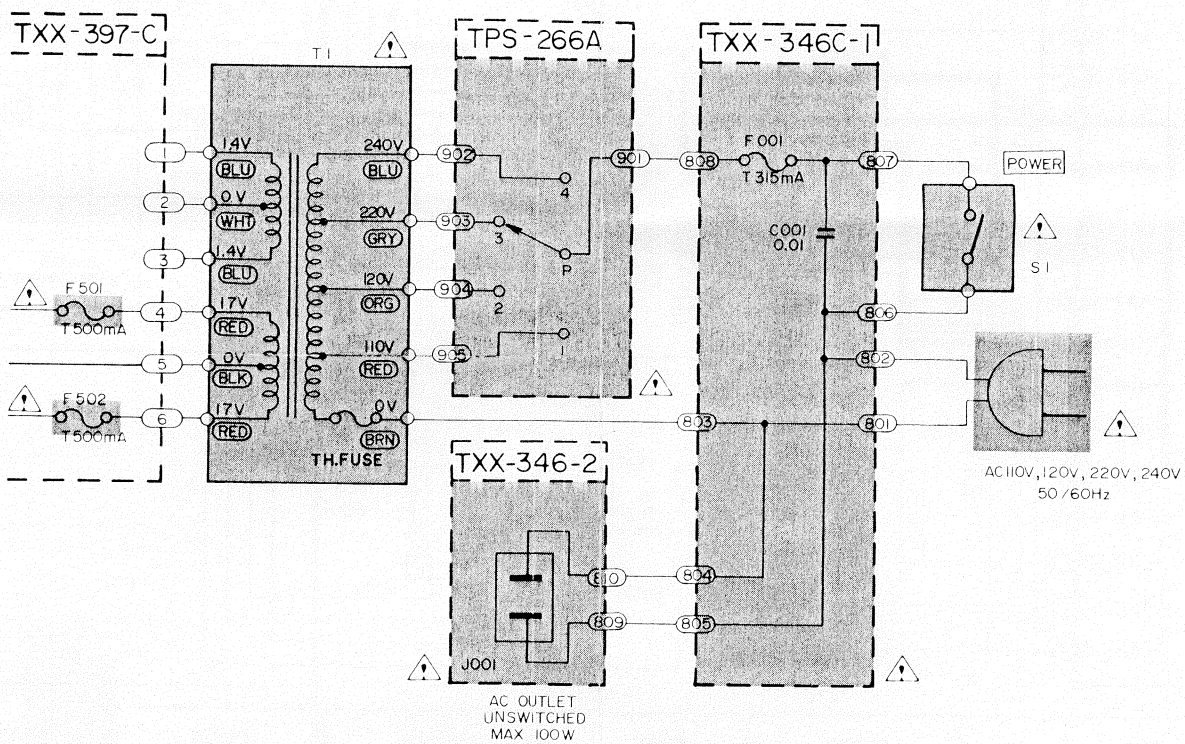
FOR WEST GERMANY
FOR EUROPE
~ 220V
50 Hz

FOR AUSTRALIA
~ 240V
50 Hz

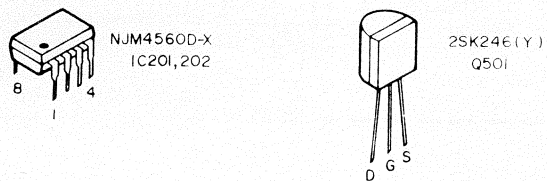
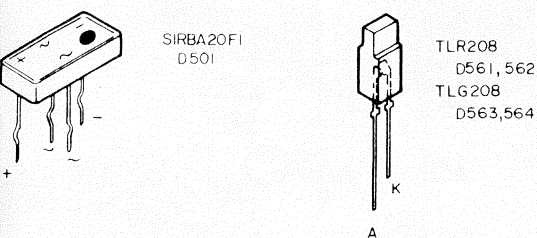
FOR UNITED KINGDOM
~ 240V
50 Hz

(U), (P)

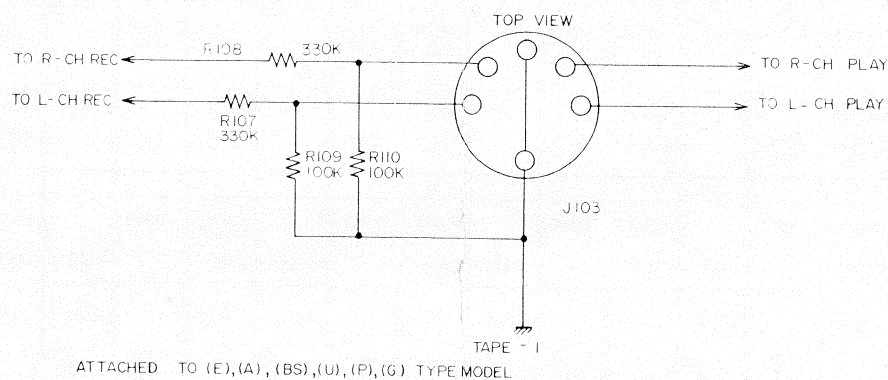
(U) FOR OTHER COUNTRIES
(P) FOR PACEX



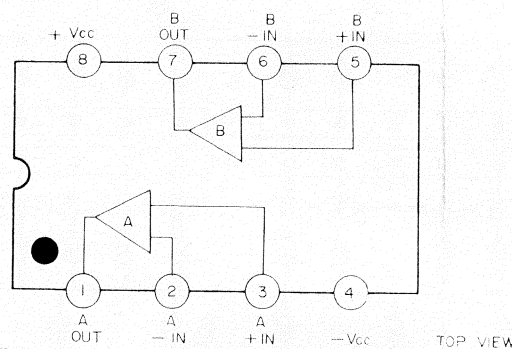
LEAD IDENTIFICATION



DIN CONNECTOR



NJM4560D - X



C

D

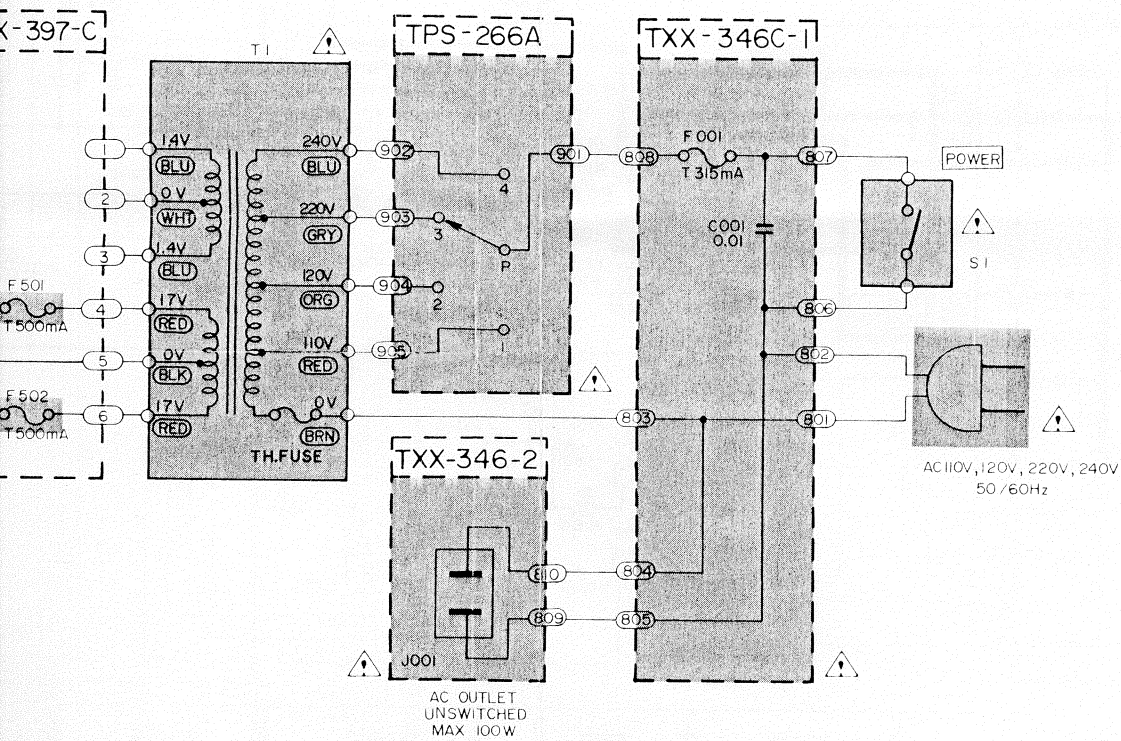
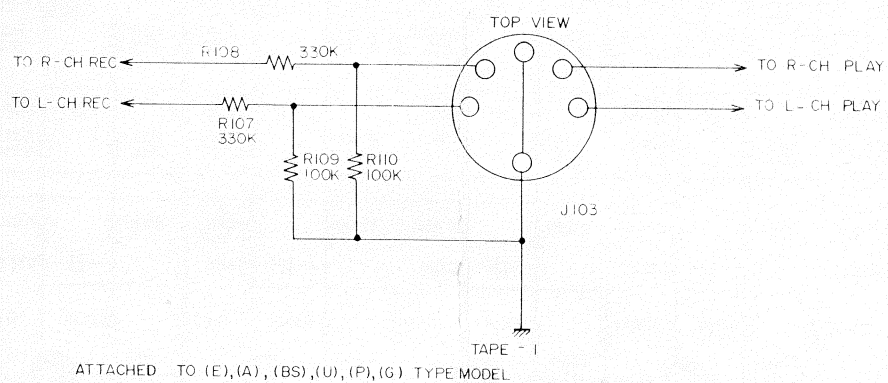
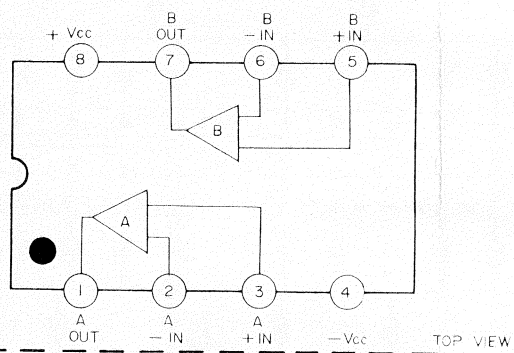
E

D

E

F

(U), (P)

(U) FOR OTHER COUNTRIES
(P) FOR PACEXDIN CONNECTORNJM4560D - X

D

E

F

12. Packing Materials and Part Numbers

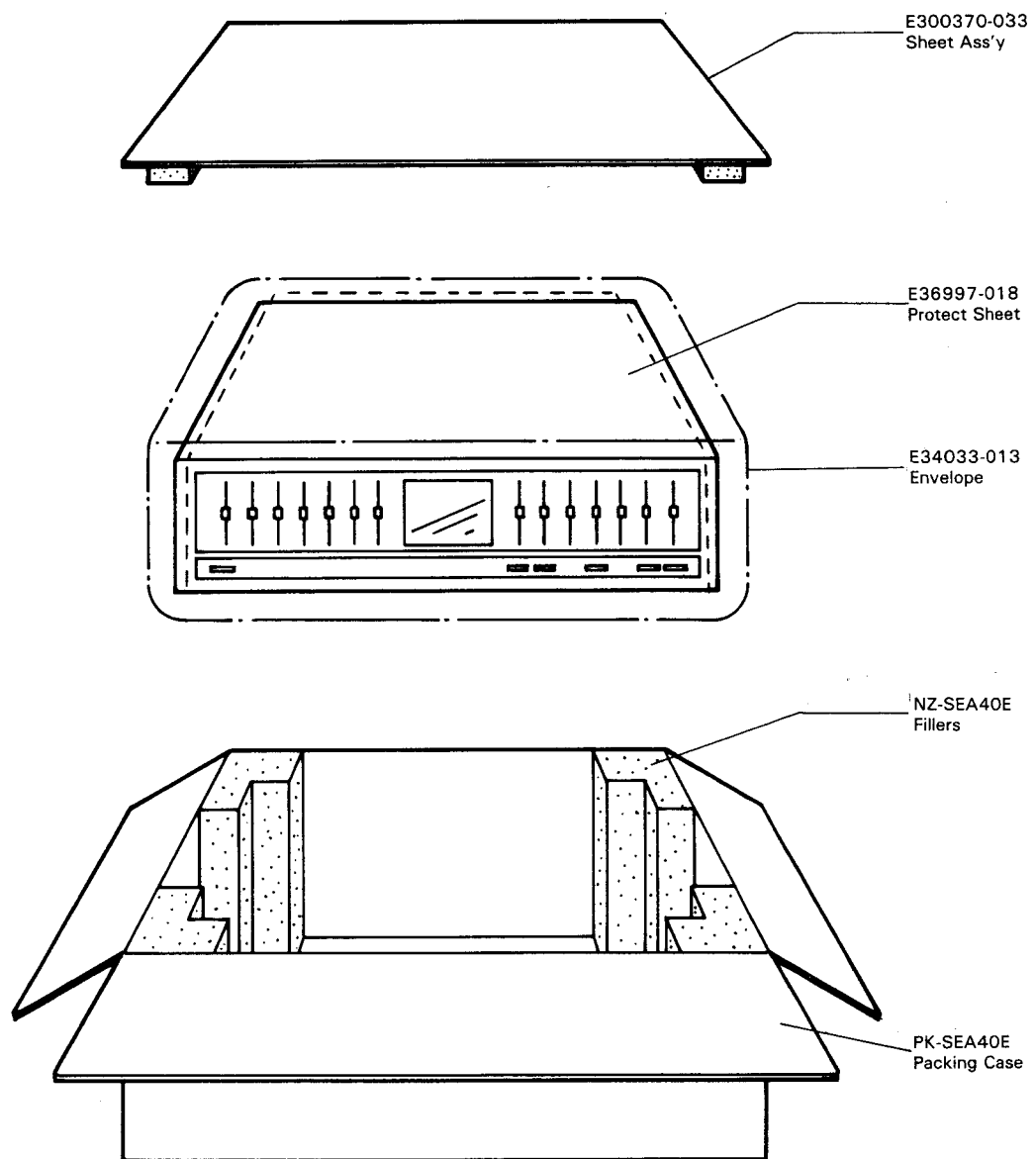


Fig 15